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Supplement No. 10, September 1986, to the

LIST OF MATERIALS ACCEPTABLE FOR USE ON TELEPHONE SYSTEMS OF REA BORROWERS (REA BULLETIN 344-2)
(Issue date January 1985)

The attached pages are those which have been revised by action of the Technical Standards Committee "A" (Telephone) between August 1 and September 26, 1986. These pages include changes in listing due to additions, deletions, and corrections made through Meeting No. 588 of Committee "A". An eleventh supplement to the List of Materials will be issued in November 1986 to include further changes.

Each copy of the List of Materials should be updated by making the changes indicated below:

Remove the Following:		Insert the Following:	
Page	Dated	Page	Dated
1.1	9-85	1.1	9-86
2.3	5-86	2.3	"
6.1	3-86	6.1	"

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A68.6/5:

na - Aerial and Underground Cable

REA Standard Designation "C" (Air Core) REA Specification PE-22

These manufacturers' cables shown by X's comply with REA Specification PE-22.

REA Standard Designation Suffixes

C

	A, C, H, P				H1C		
Manufacturer	19 AWG	22 AWG	24 AWG	26 AWG	19 AWG	22 AWG	24 AWG
AT&T Technologies[1]	X	X	X	X	-	-	-
Brand-Rex	X	X	X	X	-	-	-
Celwave Technologies	X	X	X	X	-	-	-
Ericsson TelcomCable	X	X	X	X	-	-	-
Essex	X	X	X	X	-	-	-
General Cable[2]	X	X	X	X	X	X	X
Independent Cable[3]	-	X	-	-	-	-	-
Okonite[2]	X	X	X	X	-	-	-
Superior Cable	X	X	X	X	X	X	X

Suffixes:

Coated Aluminum Shield - A
5 mil Copper Shield - C
Screened Cable for T1 Carrier- H
Screened Cable for T1C Carrier - H1C
Preconnectorized Cable for 100 Pairs and greater - - - - - - - - - - - - - - P

Notes: [1]Not accepted for suffixes C and P
[2]Not accepted for suffix P
[3]Not accepted for suffixes H and P

SC - Buried Cable

REA Standard Designation "BFC" (Filled) REA Specification PE-39

These manufacturers' cables shown by X's comply with REA Specification PE-39.

REA Standard Designation Suffixes

	BFC						
	A, C, Y, X, H, P				H1C		
Manufacturer	19 AWG	22 AWG	24 AWG	26 AWG	19 AWG	22 AWG	24 AWG
AT&T Technologies[1]	X	X	X	X	-	-	-
Brand-Rex	X	X	X	X	X	X	X
Celwave Technologies	X	X	X	X	-	-	-
Ericsson TelcomCable[2]	X	X	X	X	-	-	-
Essex	X	X	X	X	X	X	X
General Cable[3]	X	X	X	X	X	X	X
Independent Cable[3]	X	X	X	-	-	-	-
Okonite[2]	X	X	X	X	-	-	-
Superior Cable	X	X	X	X	-	-	-

Suffixes:

Coated Aluminum Shield	A
5 Mil Copper Shield	C
Gopher-Resistant Shield Containing Copper	Y
Gopher-Resistant Shield/Armor Design	X
Screened Cable for T1 Carrier	H
Screened Cable for T1C Carrier	H1C
Preconnectorized Cable 100 pairs and greater	P

Notes: [1] Not accepted for suffixes C, Y, and P
[2] Not accepted for suffix P
[3] Not accepted for suffixes X and P

Manufacturer	Type Conduit	Catalog Number
	hc - Underground Conduit	
American Pipe & Plastic	Plastic	Type B, C, and D
Apache Plastics, Inc.	Plastic	Type EB and Type DB
ARMCO	Plastic	Smooth-Cor Type B and Type C
Bay Plastics, Inc.	Plastic	Type B and Type C
Can-Tex	Plastic	Type EB and Type DB
Carlon	Plastic	Type EB and Type DB
Certain-Teed Products Corp.	Plastic	Type EB and Type DB
CIBA-GEIGY(1)	Fiberglass	T & D Conduit
Condux International, Inc.	Concrete Plastic	Condux Type EB and Type DB
Freedom Plastics, Inc.	Plastic	Type C
Hercules, Inc.	Flexible plastic	Corflo plastic conduit
Hurlbut Plastic Pipe	Plastic	Type C
Ingomar Plastic Pipe	Plastic	Type B and Type C
Kyova	Plastic	Type EB and Type DB
LCP Plastics	Plastic	Type EB and Type DB
National Pipe	Plastic	Type B and Type C
Northern Pipe Products	Plastic	Type B, C, and D
Pacific Plastic Pipe	Plastic	Type EB and Type DB
Phillips Products Co., Inc.	Flexible plastic	Driscon 3200
Phone Ducs	Plastic	Multiple plastic conduit (4, 6, & 9 Way)

See page 2.3.1 for notes.

Manufacturer	Type Conduit	Catalog Number
	hc - Underground Conduit	
Pyramid Industries	Plastic	Type EB and Type DM
Quail Plastics	Plastic	Type EB and Type DB
Queen City Plastics	Plastic	Type EB and Type DB
Sedco	Plastic	Type EB and Type DB
Tridyn Industries	Plastic	Type EB and Type DB
Vassallo Industries	Plastic	Type B and Type C
Western Plastics	Plastic	Type EB and Type DB

Note: For fiber and plastic conduit, Type I, Type B or Type EB is for concrete encasement and Type II, Type C or Type DB may be directly buried. Type D is for exposed installation, as on bridges.

(1) Filament wound fiberglass/epoxy conduit.

Manufacturer

Type Designation

ec - Carrier Equipment

Digital Carrier Systems

Manufacturer	D2/D3 Type Trunk Carrier[1] (PE-60a)	Subscriber Carrier[1] (PE-64a)	T1 Type Span Line[2] (PE-60b)	Automatic Protection Switch (PE-60c)
ITT Telecom Products	T324 D448[3]	T324S	T1 T148C[4] T1C[5]	SS-101
GTE	9002B 9004A/B[3]	910A	-	-
Lynch	B325[3]	B325L	B303	B302
R-TEC	-	DCM-24	-	-
Seiscor	-	S-24DU	-	-
THOR	-	DSS-6000	-	-
CMI/Vidar	D3 MK-IV	-	T1	-
Wescom	360 D4[3]	-	-	-

[1] D2/D3 encoding; compatible with compandored station carrier in small cables.

[2] Span line consists of (a) span terminating equipment, (b) line access units, (c) line repeaters and repeater housings.

[3] Also D4 compatible.

[4] Ternary encoded 48 channel span line for retrofit applications.

[5] T1C compatible 48 channel span line for special cable applications.

ec - Carrier Equipment

Station Carrier Systems (PE-64b)

Manufacturer	Type Designation	
	1 Channel	Multichannel
Brand-Rex	-	BR-13A (13 chan)[1]
GTE Lenkurt	84A[3]	82A (6 chan)[3]
R-TEC	AML[3,4]	CM-8 (8 chan)[2] CM-8X (8 chan)[2]
Seiscor	SSC-1B[3]	SSC-8 (8 chan)[3,5]

[1]Meets Primary frequency standard of PE-64b.
[2]Meets Alternate frequency standard of PE-64b
[3]Meets both Primary and Alternate frequency standard of PE-64b.
[4]Includes AML II which is compandored and meets the noise requirements for maximum compatibility with PCM carrier in the same cable.
[5]Includes central office and repeater equipment for SSC-5B1 (List 2) and SSC-5BFR equipment.
[6]Terminal equipment only.

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Supplement No. 11, November 1986, to the

LIST OF MATERIALS ACCEPTABLE FOR USE ON TELEPHONE SYSTEMS OF REA BORROWERS (REA BULLETIN 344-2)
(Issue date January 1985)

The attached pages are those which have been revised by action of the Technical Standards Committee "A" (Telephone) between September 26 and November 7, 1986. These pages include changes in listing due to additions, deletions, and corrections made through Meeting No. 590 of Committee "A". A new edition of the List of Materials will be issued in January 1987 to include further changes.

Each copy of the List of Materials should be updated by making the changes indicated below:

Remove the Following:		Insert the Following:	
Page	Dated	Page	Dated
2.8.1	5-86		
2.8.2	3-86	2.8.1, 2.8.2	11-86
7.4.1	5-86	7.4.1	"
7.12	3-86	7.12	"

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Manufacturer	Base Size	Catalog Number
	hm - Precast Concrete Manholes	
Foley-Brogdon[3][4]	2' x 2'	Model 222
	3' x 3'	Model 333
	4'-2" x 4'-2"	Model 444
	6' x 6'	Model 6060
	4'-6" x 8'-6"	Model 8545
	5' x 10'-6"	Model 1050
	5' x 10'-6"	Model 1050S
	6' x 8'	Model 8060
	6' x 12'	Model 1260
	8' x 8'	Model 8080
	9' x 12'	Model 1290
	6' x 10'	Model 1060
Hartford Concrete Products[2][3][4]	5' x 10'	REA 10-5 Series[2]
	4' x 8'	REA 8-4 Series
	4' x 4'	REA 4-4-4
Jensen Pre-Cast Concrete Products Co.	4'-6" x 8'-6" x 6'-6"	REA PTS-65
	5' x 10'-6" x 7'	REA 38-5706-U-7
	6' x 12' x 7'	REA 384-4046-1
	4' x 4' x 4'	REA 4848
A.C. Miller Concrete Products Inc.[3][4][5]	3' x 3'	REA-3x3
	4' x 4'	REA-4x4
	4' x 6'	REA-4x6
	4' x 7'-9"	REA-18
	4'-6" x 10'-6"	REA-20
	5' x 12'	REA-38Y
	6' x 12'	REA-38Y
	6' x 6'	REA-6x6
	6' x 8'	REA-6x8
	5' x 10'-6"	REA-5x10.6
	8' x 8'	REA-8x8
	10' x 10'	REA-10x10
Ornamental Poles, Inc.[3][4]	6'-0" x 12'-0"	REA-Y
R.C.P. Vaults (Division of Pacific International Pipe & Engineering, Inc.)	2'6" x 2'6" x 2'	76649 Handhole
	2'3" x 5'2-1/2" x 2'6"	25-TA Splicing Vault
	4'0" x 6'0" x 6'0"	466-TA
	5'0" x 9'0" x 7'2"	4484-TA
	5'0" x 9'0" x 7'2"	4484-TCA
	5'8" x 11'2" x 7'5"	5106-TA
	5'8" x 11'2" x 7'5"	5106-TCA
	6'0" x 12'0" x 7'0"	612-TA
	6'0" x 12'0" x 7'0"	612-TCA
	7'0" x 12'0" x 7'6"	712-CLS
	8'0" x 14'0"	814 (3)

See next page for notes.

hm - Precast Concrete Manholes

Manufacturer	Base Size	Catalog Number
Southeast Precast Concrete Products Inc.[3][4]	6' x 12'	REA 127
	4' x 8'	REA 86
	5' x 10'	REA 510
	4' x 4'	REA 504
Utility Concrete[3][4]	4' x 8'	RE Series
	3' x 4'	RE Series
	3' x 5'-6"	RE Series
	8' x 8'-6"	RE Series
Utility Precast Inc.[3][4][5]	6' x 12'	A Series
	5' x 10'	B Series
	4-1/2' x 8-1/2'	C Series
Utility Vault[3][4]	4' x 6'	466TA
	4'- 2" x 4'-2"	504-LA
	4'- 2" x 6'-6"	577-LA
	5' x 10'-6"	5106-TA
	5'-10" x 10'-10"	510Y
	6' x 12'	38Y-4046-1
	6'-10" x 12'-10"	38-612-Y
(Condux International ™)[3]	12' x 6'	A4046-1
Winnebago Concrete Products	12' x 6'	J4046-3
Janesville Concrete Products	10' x 5'-6"	L4046-4
Chicago Pre-Cast Products	8'-6" x 10'-2"	T4046-5
	8' to 11' x 4' to 6'	C4046-6
	5' x 8' x 6'-6"	A4046-13

Notes:

[1] These manholes come equipped with Alhambra Foundry A1083 cover or equivalent.

[2] Equipped with 27-inch frame and cover made by Dewery Brothers Foundry.

[3] Depth of the hole (headroom) must be indicated on the order.

[4] Type of manhole (A, J, L, T) must be indicated on the order.

[5] Extension sections may be ordered if required.

Manufacturer

Catalog Number

aj - Ground Rod and Pipe Clamps

Station Installations (Indoors)

Connected to:	.162" (#6 AWG) Copper Pipe Ground (Copper or Steel) 5/8" - 1-1/4" O.D.	.102" (#10 AWG) Copper Pipe Ground (Copper or Steel) 5/8" - 1-1/4" O.D.	.064" (#14 AWG) Copper Pipe Ground 5/8" - 1-1/4" O.D.
Aberdeen	596	596	596
Preformed Line Products Co.	-	-	8000-114
Reliable	13	13	#1
Sherman	-	-	101

aj - Ground Rod and Pipe Clamps

Station Installations (Outdoors)

.064" (#14 AWG), .102" (#10 AWG) and .162" (#6 AWG) Copper

Manufacturer	Catalog Number			
	Ground Rod (Galvanized Steel)		Ground Rod (Copper-Covered Steel)	
Connected to:	1/2"	5/8"	1/2"	5/8"
Aberdeen	--	--	--	973
Burndy	GRD12	GRD58	GRD12	GRD58
Erico[1][2] (Cadweld)	GR1-141G GR1-141A	GR1-161G GR1-161A	GR1-141G GR1-141A	GR1-161G GR1-161A
Fargo[1]	--	GC-268	--	GC-268
ITT Blackburn[1]	G4P	G5P	G4	G5
Knight Metalcraft	S58	S58	C12	C58
McGraw-Edison	DN18G1	DN18G1	-	-
Reliable	K48	K58	E48	E58
Wilcor	GR1/2T	T-HGR	GR1/2	HGR

[1]Accepted only for use with 0.102" (#10 AWG) and 0.162" (#6 AWG) wire.

[2]Includes disposable mold.

Manufacturer — Catalog Number

y - Suspension and Guy Strand

Utilities grade, steel, seven wire
(For use as suspension or for guys)

	5/16"(6M)	3/8"(10M)	7/16"(16M)	Class
ARMCO Steel	X	X	X	A
Bethlehem Steel	X	X	X	A, B, C
Bridon American Corp.	X	X	X	A, B, C
Cal-Wire Stranding	X	X	X	A, B, C
CF&I Steel Corp.	X	X	X	A
Davis Walker	X	X	X	A
Florida Wire	X	X	X	A
Indiana Steel and Wire	X	X	X	A, B, C
National Strand Products	X	X	-	A, C
Paulsen-Webber	X	X	X	A
Seal Wire	X	X	-	A
Southwire	X	X	X	A, B, C

Extra High Strength Grade, steel, seven wire
(For use as suspension or for guys)

	1/4"(6M)	5/16"(10M)	7/16"(16M)	Class
ARMCO Steel	X	X	X	A
Bethlehem Steel	X	X	X	A, B, C
Bridon American Corp.	X	X	X	A, B, C
Cal-Wire Stranding	X	X	X	A, B, C
CF&I Steel Corp.	X	X	X	A
Davis Walker	X	X	-	A
Florida Wire	X	X	-	A
Indiana Steel and Wire	X	X	X	A, B, C
National Strand Products	X	X	-	A
Southwire	X	X	X	A, B, C

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